

**Project WET  
Connections to  
KY Core Content 4.1**

**The Long Haul p.260**

**Elementary**

**Mathematics**

MA-EP-1.2.1

Students will apply and describe appropriate strategies for estimating quantities of objects and computational results (limited to addition and subtraction).

DOK 2

MA-04-1.2.1

Students will apply and describe appropriate strategies for estimating quantities of objects and computational results.

DOK 2

MA-05-1.2.1

Students will apply and describe appropriate strategies for estimating quantities of objects and computational results in real-world problems.

DOK 2

MA-05-2.1.4

Students will measure volume of rectangular prisms, liquid capacity, and money using standard units and apply these skills to solve real-world and mathematical problems

**Practical Living**

PL-EP-2.1.1

Students will apply fundamental motor skills:

Fundamental manipulative skills:

PL-04-2.1.1

Students will apply fundamental motor skills:

Fundamental manipulative skills:

PL-05-2.1.1

Students will apply fundamental motor skills:

Fundamental manipulative skills:

PL-EP-4.2.2

Students will describe team skills (e.g., cooperation, communication) used to compete tasks more efficiently at home, school and work.

DOK 1

PL-04-4.2.2

Students will describe team skills (e.g., cooperation, communication) and explain how these skills are used to complete tasks more efficiently at home, school and work.

DOK 2

PL-05-4.2.2

Students will describe team skills (e.g., cooperation, communication) and explain how these skills are used to complete tasks more efficiently at home, school and work. DOK 2

## **Science**

SC-05-2.3.1

Students will:

- describe the circulation of water (evaporation and condensation) from the surface of the Earth, through the crust, oceans and atmosphere (water cycle);
- explain how matter is conserved in this cycle.

Water, which covers the majority of the Earth's surface, circulates through the crust, oceans and atmosphere in what is known as the water cycle. This cycle maintains the world's supply of fresh water. Students should have experiences that contribute to the understanding of evaporation, condensation and the conservation of matter.

DOK

SC-EP-3.4.1

Students will explain the basic needs of organisms.

Organisms have basic needs. For example, animals need air, water and food; plants need air, water, nutrients and light. Organisms can survive only in environments in which their needs can be met. DOK 2

## **Social Studies**

SS-EP-5.2.3

Students will describe change over time in communication, technology, transportation and education in the community.

SS-04-5.2.3

Students will compare change over time in communication, technology, transportation and education in Kentucky. DOK 3

SS-05-5.2.3

Students will compare change over time (Colonization, Industrialization, Twentieth Century to Present) in communication, technology, transportation and education.

DOK 3

## **Middle School**

### **Mathematics**

MA-06-1.2.1

Students will estimate to solve real-world and mathematical problems with whole numbers, fractions, decimals and percents, checking for reasonable and appropriate computational results.

DOK 2

MA-07-1.2.1

Students will estimate to solve real-world and mathematical problems with fractions, decimals and percents, checking for reasonable and appropriate computational results.

DOK 2

MA-08-1.2.1

Students will estimate to solve real-world and mathematical problems with rational numbers, checking for reasonable and appropriate computational results.

DOK 2

MA-08-2.1.4

Students will apply formulas to determine the volume of right rectangular prisms in real-world problems.

DOK 2

### **Practical Living**

PL-06-2.1.1

Students will apply a combination techniques of locomotor and nonlocomotor skills which are necessary for the improvement of transitional motor skills (e.g., punting, serving, dribbling):

- locomotor - moving from one place to another (e.g., running, skipping, hopping)

nonlocomotor – stationary (e.g., bending, stretching, twisting) movements

PL-07-2.1.1

Students will apply a combination techniques of locomotor and nonlocomotor skills which are necessary for the improvement of transitional motor skills (e.g., punting, serving, dribbling):

- locomotor - moving from one place to another (e.g., running, skipping, hopping)

nonlocomotor - stationary (e.g., bending, stretching, twisting) movements

PL-08-2.1.1

Students will apply a combination techniques of locomotor and nonlocomotor skills which are necessary for the improvement of transitional motor skills (e.g., punting, serving, dribbling):

- locomotor - moving from one place to another (e.g., running, skipping, hopping)
- nonlocomotor – stationary (e.g., bending, stretching, twisting) movements

PL-06-4.2.2

Students will describe team skills (e.g., goal setting, listening, following directions, communicating, questioning, problem-solving) and explain why they are important in the workplace. DOK 2

PL-07-4.2.2

Students will describe team skills (e.g., goal setting, listening, following directions, communicating, questioning, problem-solving, dividing work) and explain why they are important in the workplace.DOK 2

PL-08-4.2.2

Students will describe team skills (e.g., goal setting, listening, following directions, communicating, questioning, problem-solving, dividing work) and explain why they are important in the workplace.DOK 2

## **Social Studies**

SS-06-4.4.1

Students will explain how technology in the present day assists human modification (e.g., irrigation, clearing land, building roads) of the physical environment in regions.DOK 2

SS-07-4.4.1

Students will explain how technology in early civilizations prior to 1500 A.D. assisted human modification (e.g., irrigation, clearing land, building roads) of the physical environment.  
DOK 2

SS-08-4.4.1

Students will explain how technology in the United States prior to Reconstruction assisted human modification (e.g., irrigation, clearing land, building roads) of the physical environment.

## **High School**

## **Mathematics**

MA-HS-1.2.1

Students will estimate solutions to problems with real numbers (including very large and very small quantities) in both real-world and mathematical problems, and use the estimations to check for reasonable computational results.

**MA-HS-2.1.1**

Students will determine the surface area and volume of right rectangular prisms, pyramids, cylinders, cones and spheres in real-world and mathematical problems.

**MA-HS-2.2.1**

Students will continue to apply to both real-world and mathematical problems U.S. customary and metric systems of measurement.

**Practical Living**

**PL-HS-4.2.2**

Students will describe team skills (e.g., setting goals, listening, following directions, questioning, communicating, problem-solving, dividing work, conflict resolution, mediation) and evaluate the role of team skills in today's workplace.

DOK 3

**Social Studies**

**SS-HS-4.4.1**

Students will explain how humans develop strategies (e.g., transportation, communication, technology) to overcome limits of their physical environment